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January 10, 2000

VIA FAX AND U.S. MAIL

Chief

New Jersey Superfund Branch II Emergency and Remedial Response Division U.S. Environmental Protection Agency 290 Broadway/19th Floor New York, New York 10007-1866

Attn: Mr. Nigel Robinson

RE: Chemsol Site - Administrative Order II CERCLA 20104

RD/RA Program For Interim Groundwater Remedy

Dear Mr. Robinson:

Enclosed please find three (3) copies of the Quarterly Compliance Report (QCR) for the period October 1 to December 31, 1999.

Respectfully,

de maximis, inc.

Willard F. Potter Facility Coordinator

**Enclosures** 

cc: Amelia Wagner, Esq. (1)

Paul Harvey (2)

**Chemsol Technical Committee** 

Dan Alesandro; BAI - via fax only
Bob Mutch; Eckenfelder - via fax only

# CHEMSOL SITE DOCKET NO. II-CERCLA 20104 COMPLIANCE REPORT OCTOBER 1 - DECEMBER 31, 1999

# 1. TREATMENT PLANT OPERATIONS

- A. Continuous (24 hour) operation of the Chemsol Groundwater Treatment Plant was maintained throughout the quarter except as discussed below. The groundwater influent flow rate from Extraction Well C-1 was approximately 29 gpm during the period with the exception of shutdowns discussed below.
- B. The groundwater extraction well C-1 was shutdown briefly (30 minutes) on October
  7, 1999 due to a power failure. Systems were re-started immediately after restoration of electric service as operations personnel were on site.
- C. The groundwater extraction well C-1 was shut down manually on November 10,1999 for approximately 22 hours so that the air stripping towers could be washed to remove biological growth from the packing media. A second shutdown for tower cleaning occurred on December 7, 1999 for a similar duration.
- D. The CATOX caustic scrubber unit developed a small leak in the venturi tube during October 1999. The leak appears to be similar to a 1996 weld failure on the inner hastelloy section of the venturi. The venturi was repaired according to the manufacturer's direction at that time, and now appears to be failing again in the same weld area. The Group's O&M contractor has contacted several welding repair shops and has tentatively scheduled a 5 day shutdown starting January 17, 2000 to remove the venturi for off-site repair.
- E. As part of the plant's preventive maintenance program, all four (4) air stripping tower blowers were overhauled and re-aligned to optimize air flow rates during the week of October 4, 1999. New check valves and rubber couplings were installed on these units.

# 2. MONITORING ACTIVITIES

A. A Compliance Report covering the period from July 1, 1999 to September 30, 1999 was submitted to USEPA in a letter dated October 11, 1999.

**Submission Date** 

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**Reporting Period** 

B. Self Monitoring Reports for the following periods were submitted to the Middlesex County Utilities Authority (MCUA) as indicated:

| September 1 to September 30,1999 | October 18, 1999  |
|----------------------------------|-------------------|
| October 1 to October 31, 1999    | November 17, 1999 |
| November 1 to November 30, 1999  | December 20, 1999 |
| October 1 to October 31, 1999    | November 17, 199  |

- C. Groundwater Effectiveness Monitoring was conducted on October 29, November 23 and December 13, 1999. A copy of the report providing the results of the water level monitoring for this period is attached. A new set of static (non-pumping) water levels were collected on July 20, 1999 and are also included in the report. The updated potentiometric contour maps of static conditions are found as Figures 2, 3, 4 and 5. As previously shown, the groundwater flow direction is to the north in these four water-bearing units.
- D. The Twenty-Second Quarterly Influent Monitoring Report was submitted to USEPA on December 6, 1999.

## 3. OTHER ACTIVITIES

The MCUA conducted it's annual Industrial Pretreatment Program Inspection of the Chemsol treatment plant on October 6-7, 1999. The MCUA subsequently notified *de maximis* in a letter dated December 9, 1999 that the Chemsol treatment plant received a rating of "ACCEPTABLE."

## 4. COMPLIANCE STATUS

There were no permit excursions reported during this reporting period. Hydraulic control in the upper bedrock was maintained during operation of the extraction well as demonstrated by the groundwater effectiveness monitoring program.



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